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NOTICE OF ALLOWANCE AND FEE(S) DUE

45507 7590 BAKER BOTTS LLP 2001 ROSS AVENUE DALLAS, TX 75201-2980

6TH FLOOR

01/10/2008

EXAMINER

KANGARLOO, RAMTIN PAPER NUMBER ARTHNIT

4177 DATE MAILED: 01/10/2008

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/822.606 04/12/2004 Randy C. Barnhart 074835.0101 (PD 03E043) 2852 TITLE OF INVENTION: DATA MONITORING AND RECOVERY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	04/10/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

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APPLICATION NO.	APPLICATION NO. FILING DATE			FIRST NAMED INVENTOR			ATTORNEY DOCKET NO. CONFIRMATION		CONFIRMATION NO.	╝
10/822,606 TITLE OF INVENTION	04/I2/2004 E DATA MONITORING	AND	RECOVERY	Randy C. Barnha	rt		07483	5.0101 (PD 03E043)	2852	
APPLN, TYPE	SMALL ENTITY	IS:	SUE FEE DUE	PUBLICATION FEE I	OUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE	П
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KANGARLO	O, RAMTIN		4177	370-216000		•				
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha B/122) attached. ication (or "Fee Address 22 or more recent) attach ND RESIDENCE DAT. less an assignee is ident h in 37 CFR 3.11. Comj	nge of ' ' Indicated. Use	Correspondence ation form e of a Customer E PRINTED ON	(I) the names of or agents OR, alte (2) the name of a registered attorned 2 registered patent listed, no name with the PATENT (print of the patent).	up to rnativ single y or a t attor ill be or typ the pa	e firm (having as a agent) and the name meys or agents. If r printed. ee) atent. If an assigne assignment.	membes of u	er a 2p to p to e is 3	ocument has been filed	for
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10/822,606		04/12/2004 Randy C. Barnhart		074835.0101 (PD 03E043)	2852
45507	7590	01/10/2008		EXAM	INER
BAKER BOT	TS LLP	•	KANGARLO	O, RAMTIN	
2001 ROSS AV	ENUE			ART UNIT	PAPER NUMBER
6TH FLOOR DALLAS, TX	75201-29	980		4177 DATE MAILED: 01/10/2008	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 942 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 942 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)
10/822,606	BARNHART ET AL.
Examiner	Art Unit
RAMTIN KANGARLOO	4177

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1331 and MEPS 1308.

NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initia of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.
1. This communication is responsive to <u>patent application file on 4/12/2004</u> .
2. ☑ The allowed claim(s) is/are <u>1-29</u> .
3.
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (dentifying indicia such as the application number (see 37 CFR 1.34(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- Paper No./Mail Date 6/28/2005
- Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. □ N	otice of Inf	ormal Pate	ent Application

- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. Other _____.

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Art Unit: 4177

DETAILED ACTION

Reasons For Allowance

1. Claims 1-29 are allowed.

2. The following is an examiner's statement of reasons for allowance: Webb (The WARP: Wideband Advanced Recorder Processor for the New Millennium Program) teaches processor have the capability to perform automated retransmission of data if frames are missed by the receiver at the ground station (See Page 478, Lines 8-13). However, prior art of record fail to teach or render obvious, alone or in combination, a system for data monitoring and recovery (DMR), the system comprising: one or more first DMR agents, each first DMR agent residing at one of one or more receptors that are each operable to receive first data units from one or more remote units, the first DMR agent being operable to generate first tracking reports of the first data units received at the receptor and communicate the first tracking reports to a DMR manager: one or more second DMR agents, each second DMR agent residing at one of one or more centrals that are each operable to receive first data units from one or more receptors and extract second data units from the first data units for communication to one or more interface data processors (IDPs), the second DMR agent being operable to; generate second tracking reports of the first data units received at the central and communicate the second tracking reports to the DMR manager; and generate delivery reports of the second data units extracted at the central and communicate the delivery reports to the DMR manager, the delivery reports indicating missing second data units

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Art Unit: 4177

that should have been received at the central, but were not; and the DMR manager, operable to: using the delivery reports, identify the missing second data units; using one or more of the tracking reports: map the missing second data units to one or more first data units; and determine a best source for retransmission of the first data units mapped to the missing second data units; generate a retransmit request for the first data units mapped to the missing second data units; and communicate the retransmit request to the best source in combination with all other limitation as recited in independent claim 1.

Furthermore, the same consideration as made above also apply to independent claims 11, 20 and 29 since these claims includes essentially the same feature combination as claim 1 in terms of method, logic and system claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Art Unit: 4177

Conclusion

Any response to this Office Action should be faxed to (571) 273-8300 or Mailed
 to:

Commissioner for Patents, P.O.Box 1450 Alexandria, VA 22313-1450

Hand-delivered responses should be brought to

Customer Service Window Randolph Building 401 Dulany Street Alexandria. VA 22314

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RAMTIN KANGARLOO whose telephone number is (571)270-3452. The examiner can normally be reached on Monday to Thursday 7:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Benny Tieu can be reached on (571) 272-7490. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ramtin Kangarloo/ Examiner, Art Unit 4177 December 14, 2007

> /Benny Q Tieu/ Supervisory Patent Examiner, Art Unit 4177